

## Editors-in-Chief

### G. Ausiello

Università di Roma “La Sapienza”, Dipartimento di Informatica e Sistemistica, Via Ariosto 25, 00185 Roma, Italy  
Email: ausiello@dis.uniroma1.it

### D. Sannella

University of Edinburgh, School of Informatics, 10 Crichton Street, Edinburgh EH8 9AB, Scotland  
Email: dts@inf.ed.ac.uk

## Founding Editor

### M. Nivat

10 Avenue des Chardonnerets, 95570 Attainville, France  
Email: maurice.nivat@liafa.jussieu.fr

## Honorary Board

### J.W. de Bakker

Mathematics and Computer Science, Department of Computer Science, P.O. Box 4079, 1009 AB Amsterdam, The Netherlands  
Email: jaco@cwi.nl

### C. Böhm

Università di Roma, *La Sapienza*, via S. Crescentiano 20, I-00199 Rome, Italy  
Email: bohm@di.uniroma1.it

### E. Engeler

ETH Zentrum, Department of Mathematics, CH-8092, Zürich, Switzerland  
Email: engeler@math.ethz.ch

### M.A. Harrison

University of California, Computer Science Division, 775 Soda Hall, Berkeley, CA 94720-1776, USA  
Email: harrison@cs.berkeley.edu

### Z. Manna

Stanford University, Computer Science Department, Stanford, CA 94305, USA  
Email: manna@cs.stanford.edu

### A.R. Meyer

Massachusetts Institute of Technology, Laboratory for Computer Science, 545 Technology Square, Cambridge, MA 02139, USA  
Email: meyer@lcs.mit.edu

### M. Nivat

10 Avenue des Chardonnerets, 95570 Attainville, France  
Email: maurice.nivat@liafa.jussieu.fr

### F.D. Preparata

Brown University, Department of Computer Science, P.O. Box 1910, Providence, RI 02912-1910, USA  
Email: france@cs.brown.edu

### A. Salomaa

Turku Centre for Computer Science, Lemminkaisenkatu 14A, 205 20 Turku, Finland  
Email: asalomaa@utu.fi

### E. Shamir

The Hebrew University, Institute of Mathematics, Jerusalem, 91904 Israel  
Email: shamir@cs.huji.ac.il

### R. Siromoney

Madras Christian College, Department of Mathematics, Tambaram, Madras, 600059, India  
Email: ranisiro@satyam.net.in

## Editorial Board: Algorithms, Automata, Complexity and Games (TCS-A)

### G. Ausiello (Editor-in-Chief)

Università di Roma “La Sapienza”, Dipartimento di Informatica e Sistemistica, Via Ariosto 25, 00185 Roma, Italy  
Email: ausiello@dis.uniroma1.it

### A. Apostolico

Georgia Institute of Technology, College of Computing, Klaus Advanced Computing, 266 Ferst Drive, Atlanta, GA 30332 - 0280, USA  
Email: axa@cc.gatech.edu

**J. Camenisch**

IBM Zurich Research Laboratory, Säumerstrasse 4, CH-8803 Rüschlikon, Switzerland  
Email: jca@zurich.ibm.com

**M. Crochemore**

Université de Marne la Vallée, Institut Gaspard Monge, F-77454 Marne-la-Vallée Cedex 2, France  
Email: Maxime.Crochemore@univ-mlv.fr

**F. Cucker**

City University of Hong Kong, Department of Mathematics, 83 Tat Chee Avenue, Kowloon, Hong Kong  
Email: macucker@sobolev.cityu.edu.hk

**X. Deng**

Department of Computer Science, University of Liverpool, Liverpool, L69 3BX, UK  
Email: xiaotie@liv.ac.uk

**J. Díaz**

Universitat Politècnica de Catalunya (UPC), Departament de Llenguatges i Sistemes Informàtics, Campus Nord, Edifici Omega, Jordi Girona Salgado 1-3, E-08034 Barcelona, Spain  
Email: diaz@lsi.upc.edu

**D.-Z. Du**

University of Texas at Dallas, Department of Computer Science, Richardson, TX 75080, USA  
Email: dzdu@utdallas.edu

**B. Durand**

LIM-CMI, 39 rue Joliot-Curie, 13453 Cedex 13 Marseille, France  
Email: bruno.durand@cmi.univ-mrs.fr

**T. Erlebach**

University of Leicester, Department of Computer Science, F5 Computer Science Building, University Road, Leicester, LE1 7RH, UK  
Email: t.erlebach@mcs.le.ac.uk

**Z. Esik**

University of Szeged, Department of Computer Science, P.O. Box 652, H-6720 Szeged, Hungary  
Email: ze@inf.u-szeged.hu

**A. Fiat**

Department of Computer Science, Tel-Aviv Universtiy, Ramat Aviv, 69978 Tel Aviv, Israel  
Email: fiat@math.tau.ac.il

**A.S. Fraenkel**

Weizmann Institute of Science, Faculty of Mathematical Science, Dept. of Computer Science and Applied Mathematics,  
P.O. Box 26, Rehovot 76100, Israel  
Email: fraenkel@wisdom.weizmann.ac.il

**R. Gavalda**

Universitat Politècnica de Catalunya (UPC), Departament de Llenguatges i Sistemes Informàtics, Campus Nord, Edifici Omega, Jordi Girona Salgado 1-3, E-08034 Barcelona, Spain  
Email: gavalda@lsi.upc.edu

**R. Giancarlo**

Università degli Studi di Palermo, Department of Mathematics, Computer Science Section, via Archirafi 34, 90123 Palermo, Italy  
Email: raffaele@math.unipa.it

**O.H. Ibarra**

University of California at Santa Barbara, Department of Computer Science, Santa Barbara, CA 93106, USA  
Email: ibarra@cs.ucsb.edu

**G.F. Italiano**

Università degli studi di Roma 'Tor Vergata', Dipartimento di Informatica, Sistemi e Produzione, Via di Tor Vergata 110,  
00133 Roma, Italy  
Email: italiano@disp.uniroma2.it

**M. Ito**

Kyoto Sangyo University, Faculty of Science, Kamigamo-Motoyama, Kita-ku, Kyoto, 603, Japan  
Email: ito@ksuvx0.kyoto-su.ac.jp

**C. Kaklamanis**

Department of Computer Engineering and Informatics, University of Patras, Greece  
Email: kakl@ceid.upatras.gr

**J. Karhumäki**

University of Turku, Department of Mathematics, FIN-20014 Turku, Finland  
Email: karhumak@utu.fi

**M. Kiwi**

Depto. Ing. Matemática, U. Chile, Correo 3, Santiago 170-3, Chile  
Email: mk@dim.uchile.cl

**R. Klasing**

LaBRI - Université Bordeaux 1, 351, cours de la Libération, 33405 Talence cedex, France  
Email: ralf.klasing@labri.fr

**J. Kratochvíl**

Charles University, Department of Applied Mathematics, Malostranské nám. 25, 118 00 Praha 1, Czech Republic  
Email: honza@kam.mff.cuni.cz

**V. Pan**

City University of New York, Lehman College, Department of Mathematics and Computer Science,  
250 Bedford Park Boulevard West, Bronx, NY 10468-1589, USA  
Email: vpan@lcvax.lehman.cuny.edu

**V.(V.) Paschos**

Université Paris-Dauphine, Place du Marechal De Lattre de Tassigny, F-75775, Paris Cedex 16, France  
Email: Paschos@lamsade.dauphine.fr

**D. Peleg**

Faculty of Mathematics, Department of Computer Science and Applied Mathematics, The Weizman Institute,  
Rehovot 76100, Israel  
Email: david.peleg@weizmann.ac.il

**D. Perrin**

Université de Marne la Vallée, Laboratoire d'Informatique - CNRS, Institut Gaspard Monge, F-77454 Marne-la-Vallée Cedex 2, France  
Email: perrin@univ-mlv.fr

**G. Persiano**

Dipartimento di Informatica ed Applicazioni "Renato M. Capocelli", Università di Salerno, Via Ponte Don Melillo, 84081 Fisciano (SA), Italy  
Email: giuper@dia.unisa.it

**H. Prodinger**

University of Stellenbosch, Mathematics Department, 7602 Stellenbosch, South Africa  
Email: hproding@sun.ac.za

**G. Rozenberg**

Leiden University, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands  
Email: rozenber@liacs.nl

**S. Sen**

Indian Institute of Technology, Delhi, Department of Computer Science and Engineering, New Delhi 11016, India  
Email: ssen@cse.iitd.ernet.in

**P. Spirakis**

Computer Technology Institute (CTI), P.O. Box 1122, 26110 Patras, Greece, CTI/+30 61997703 (Univ. Off.)  
Email: spirakis@cti.gr

**H.J. van den Herik**

Tilburg University, Centre for Creative Computing, PO Box 90153, 5000 LE Tilburg, The Netherlands  
Email: h.j.vdnherik@uvt.nl

**O. Watanabe**

Tokyo Institute of Technology, Department of Mathematical and Computing Sciences, Meguro-ku, Ookayama, Tokyo 152-8552, Japan  
Email: watanabe@is.titech.ac.jp

**P.(P) Widmayer**

Eidgenössische Technische Hochschule (ETH) Zürich, Dept. of Computer Science, CH-8092, Zürich, Switzerland  
E-mail: widmayer@inf.ethz.ch

**Editorial Board: Logic, Semantics and Theory of Programming (TCS-B)****D. Sannella** (Editor-in-Chief)

University of Edinburgh, School of Informatics, The King's Building, Mayfield Road, Edinburgh EH9 3JZ, Scotland  
Email: dts@inf.ed.ac.uk

**A. Avron**

Tel-Aviv University, School of Computer Science, Tel-Aviv, Israel  
Email: aa@math.tau.ac.il

**P. Aziz Abdulla**

Uppsala University, Department of Information Technology, Uppsala, Sweden  
Email: parosh@it.uu.se

**P.-L. Curien**

Université Paris 7, PPS-Case 7014, 2 pl. Jussieu, 75251 Paris Cedex 05, France  
Email: curien@pps.jussieu.fr

**J. Davies**

Oxford University Computing Laboratory, Wolfson Building, Parks Road, Oxford OX1 3QD, UK  
Email: jim.davies@comlab.ox.ac.uk

**J. Esparza**

Technische Universität München, Institut für Informatik (I7), Boltzmannstr. 3, D-85748 Garching bei München, Germany  
Email: esparza@in.tum.de

**W. Fan**

School of Informatics, University of Edinburgh, Edinburgh EH8 9AB, UK  
Email: wenfei@inf.ed.ac.uk

**M. Hofmann**

Ludwig-Maximilians-Universität München, Institut für Informatik, Oettingenstraße 67, 80538 München, Germany  
Email: mhofmann@informatik.uni-muenchen.de

**B.P.F. Jacobs**

Radboud Universiteit Nijmegen, Department of Computer Science, Toernooiveld 1, 6525 ED Nijmegen, The Netherlands  
Email: bart@cs.kun.nl

**A. Jung**

The University of Birmingham, School of Computer Science, Birmingham B15 2TT, UK  
Email: a.jung@cs.bham.ac.uk

**G. Levi**

Università di Pisa, Dipartimento di Informatica, Via Buonarroti 2, I-56100 Pisa, Italy  
Email: levi@di.unipi.it

**H. Lin**

Laboratory of Computer Science, Institute of Software, Chinese Academy of Sciences, P.O. Box 8718, Beijing 100080, China  
Email: lhm@ios.ac.cn

**M. Mavronicolas**

University of Cyprus, Department of Computer Science, P.O. Box 20537, Nicosia CY-1678 Cyprus  
Email: mavronic@cs.ucy.ac.cy

**M. Mislove**

Tulane University, Department of Mathematics, New Orleans, LA 70118, USA  
<http://www.math.tulane.edu/~mwm>  
Email: mwm@math.tulane.edu

**U. Montanari**

Università di Pisa, Dipartimento di Informatica, Via Filippo Buonarroti 2, I-56127, Pisa, Italy  
Email: ugo@di.unipi.it

**M. Nielsen**

University of Aarhus, BRICS, Computer Science Department/Bld. 540, Ny Munkegade, DK-8000 Aarhus C, Denmark  
Email: mnielsen@brics.dk

**G. Rozenberg**

Leiden University, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands  
Email: rozenber@liacs.nl

**V. Sassone**

University of Southampton, School of Electronics and Computer Science, Southampton SO17 1BJ, UK  
Email: vs@ecs.soton.ac.uk

**N. Shankar**

SRI (Stanford Research Institute) International, Berkeley, CA, USA  
Email: shankar@csl.sri.com

**P. Stevens**

University of Edinburgh, School of Informatics, The King's Building, Mayfield Road, Edinburgh EH9 3JZ, UK  
Email: perdita@inf.ed.ac.uk

**J. Tiuryn**

Institute of Informatics, ul. Banacha 2, 00-193 Warsaw, Poland  
Email: tiuryn@mimuw.edu.pl

**R. van Glabbeek**

National ICT Australia (Sydney Laboratory), Locked Bag 6016, Sydney, NSW 1466, Australia  
Email: rvg@cs.stanford.edu

**M. Wirsing**

Ludwig-Maximilians-Universität, Institut für Mathematik, Oettingenstrasse 67, D-80536 München, Germany  
Email: wirsing@informatik.uni-muenchen.de

**Editorial Board: Theory of Natural Computing (TCS-C)****G. Rozenberg** (Editor-in-Chief)

Leiden University, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands  
Email: rozenber@liacs.nl

**T. Baeck**

Universiteit Leiden, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands  
Email: baeck@liacs.nl

**A.G. Barto**

Univ. of Massachusetts, Dept. of Computer Science, 140 Governors Drive, Amherst, MA 01003-9264, USA  
Email: barto@cs.umass.edu

**G. Brassard**

Univ. de Montréal, Dept. IRO, C.P. 6218, Succursale Centre-Ville, Montréal, Quebec, Canada H3C 3J7  
Email: brassard@iro.umontreal.ca

**C.S. Calude**

University of Auckland, Department of Computer Science, Maths-Physics Building 303 Room 575, 38 Princes St., Private Bag 92019, Auckland, New Zealand  
Email: cristian@cs.auckland.ac.nz

**L. Cardelli**

Microsoft, Cambridge, UK  
Email: luca@microsoft.com

**D. Corne**

Heriot-Watt University, School of Mathematical and Computer Sciences, Room EM G39, Riccarton, Edinburgh EH14 4AS, UK  
Email: dwcorne@gmail.com

**P. Degano**

Dip.to di Informatica, Università di Pisa, Largo Bruno Pontecorvo, 3, I-56127 Pisa, Italy  
Email: degano@di.unipi.it

**G. Dreyfus**

ESPCI, Lab. d'Electronique, 10 rueVauquelin, F-75005 Paris, France  
Email: Gerard.Dreyfus@espci.fr

**G. Eiben**

Vrije Universiteit Amsterdam, Faculty of Sciences, De Boelelaan 1081a, 1081 HV Amsterdam, The Netherlands  
Email: gusz@cs.vu.nl

**S. Hallgren**

The Pennsylvania State University, Department of Computer Science and Engineering, 348A IST Building, University Park, PA 16802, USA  
Email: hallgren@cse.psu.edu

**D. Harel**

Weizmann Institute of Science, Faculty of Mathematics and Computer Science, P.O. Box 26, 76100 Rehovot, Israel  
Email: dharel@weizmann.ac.il

**J. Hillston**

School of Informatics, University of Edinburgh, The Informatics Forum, 10 Crichton Street, Edinburgh EH8 9AB, UK  
Email: Jane.Hillston@ed.ac.uk

**M. Hirvensalo**

University of Turku, Department of Mathematics, FIN-20014, Turku, Finland  
Email: mikhirve@cs.utu.fi

**P. Hoyer**

University of Calgary, Department of Computer Science, 2500 University Drive N.W., Calgary, Alberta, Canada T2N 1N4  
Email: hoeyer@ucalgary.ca

**N. Jonoska**

University of South Florida, Tampa, USA  
Email: jonoska@math.usf.edu

**J. Kari**

University of Turku, Finland  
Email: jkari@utu.fi

**L. Kari**

Univ. of Western Ontario, Dept. of Computer Science, London, Ontario, Canada N6A 5B7  
Email: lila@csd.uwo.ca

**J.N. Kok**

Universiteit Leiden, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands  
Email: joost@liacs.nl

**S. Miyano**

University of Tokyo, Institute of Medical Science, Human Genome Center, Shirokanedai 4-6-1, Minato-ku, Tokyo 108, Japan  
Email: miyano@ims.u-tokyo.ac.jp

**T. Mor**

Computer Science Department, Technion - Israel Institute of Technology, Haifa 32000, Israel  
Email: talmo@cs.technion.ac.il

**P. Orponen**

Helsinki Univ. of Technology, Lab. for Theoretical Computer Science, P.O. Box 5400, FIN-02150 HUT Espoo, Finland  
Email: orponen@tcs.hut.fi

**G. Paun**

Inst. of Mathematics of the Romanian Academy, P.O. Box 1-764, 70700 Bucharest, Romania  
Email: gp@astor.urv.es

**I. Petre**

Abo Academi University, Department of IT, Turku 20520, Finland  
Email: ipetre@abo.fi

**C. Reeves**

School of Mathematical and Information Sciences, Coventry University, Priory St, Coventry CV15FB, UK  
Email: c.reeves@coventry.ac.uk

**J. Rowe**

University of Birmingham, School of Computer Science, Birmingham, West Midlands B15 2TT, UK  
Email: j.e.rowe@cs.bham.ac.uk

**A. Skowron**

Warsaw University, Institute of Mathematics, Banacha 2, 02-097 Warsaw, Poland  
Email: skowron@mimuw.edu.pl

**C. Torras**

Inst. de Robotica i Informatica Industr (CSIC-UPC), ParcTecnologic de Barcelona-Edifici U, C. Llorens i Artigas, 4-6, 2a planta, 08028 Barcelona, Spain  
Email: ctorras@iri.upc.es

**M.D. Vose**

The Univ. of Tennessee, Dept. of Computer Science, 203 Claxton Complex, 1122 Volunteer Blvd, Knoxville TN 37996-3450, USA  
Email: vose@cs.utk.edu

**X. Yao**

School of Computer Science, The University of Birmingham, Edgbaston Park Road, Birmingham B15 2TT, UK  
Email: x.yao@cs.bham.ac.uk

**T. Yokomori**

Waseda Univ., Dept. of Math., School of Education, 1-6-1 Nishiwaseda, Shinjuku-ku, Tokyo 169-8050, Japan  
Email: yokomori@waseda.jp

**S. Zhang**

The Chinese University of Hong Kong, Department of Computer Science and Engineering, Shatin, N.T., Hong Kong  
Email: syzhang@cse.cuhk.edu.hk